

# UL Evaluation Report



## UL ER9516-02

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Sub-level 2: 07 50 00 – Membrane Roofing  
Sub-level 3: 07 53 00 – Elastomeric Membrane Roofing  
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### COMPANY:

FIRESTONE BUILDING PRODUCTS CO L L C  
250 W 96<sup>TH</sup> ST  
INDIANAPOLIS, IN 46260 USA  
(800) 428-4442  
[www.firestonebpco.com](http://www.firestonebpco.com)

### 1. SUBJECT:

FIRE RETARDANT RUBBERGARD, RUBBERGARD LS-FR, RUBBERGARD LS-FR PT, RUBBERGARD EPDM SA, RUBBERGARD PLATINUM, RUBBERGARD MAX, RUBBERGARD MAX FR, RUBBERGARD MAX PT, and RUBBERGARD ECOWHITE™

### 2. SCOPE OF EVALUATION

- 2012, 2009, and 2006 *International Building Code*® (IBC)
- 2012, 2009, and 2006 *International Residential Code*® (IRC)
- ICC ES Acceptance Criteria for Membrane Roof-Covering Systems (AC75), Dated July 2010
- ICC ES Acceptance Criteria for Quality Documentation (AC10), Dated December 2012

## The products were evaluated for the following properties:

- Roofing Systems for Exterior Fire Exposure (ANSI/UL790, ASTM E108)
- Roofing Systems, Wind Uplift Resistance (ANSI/UL1897, FM 4474)
- Physical Properties (ASTM D4637, ASTM G155)
- Impact Resistance (FM 4470)
- Foot Traffic Resistance (FM 4470)

## 3. REFERENCED DOCUMENTS

- ANSI/UL790 (ASTM E108), Standard Test Methods for Fire Tests of Roof Covering
- ANSI/UL1897, Uplift Tests for Roof Covering Systems
- FM 4470, The Approval Standard for Single-Ply, Polymer-Modified Sheet, Built-Up Roof (BUR) and Liquid Applied Roof Assemblies For Use in Class 1 and Noncombustible Roof Deck Construction
- FM 4474, American National Standard for Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies Using Static Positive and/or Negative Differential Pressures
- ASTM D4637, Standard Specification for EPDM Sheet Used in Single-Ply Membrane
- ASTM G155, Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-metallic Materials
- ASTM D312, Standard Specification for Asphalt Used in Roofing
- ICC ES Acceptance Criteria for Membrane Roof-Covering Systems (AC75), Dated July 2010
- ICC ES Acceptance Criteria for Quality Documentation (AC10), Dated December 2012

## 4. USES

The single-ply roofing systems covered in this report are used as roof coverings in mechanically fastened or fully adhered Class A, B, or C roof assemblies installed on combustible or noncombustible decks.

## 5. PRODUCT DESCRIPTION

### 5.1 GENERAL

FIRE RETARDANT RUBBERGARD, RUBBERGARD LS-FR, RUBBERGARD LS-FR PT, RUBBERGARD EPDM SA, RUBBERGARD PLATINUM, RUBBERGARD MAX, RUBBERGARD MAX FR, RUBBERGARD MAX PT, and RUBBERGARD ECOWHITE™ Membrane Roofing Systems are single-ply Ethylene Propylene Diene Monomer (EPDM) based roofing membranes designed to be used in adhered roofing systems or mechanically fastened roofing systems as described in this report. The membranes are provided in rolls of various lengths and widths.

The roofing assemblies incorporating the membranes comply with the following properties when installed as described in this report.

**Fire Classification:** Roofing assemblies covered under this report have been tested for fire classification Class A, B, or C in accordance with UL 790 (ASTM E108), as required by [Section 1505.1](#) of the 2012, 2009 and 2006 IBC and [Section R902.1](#) of the 2012, 2009 and 2006 IRC.

**Wind Uplift Resistance:** Roofing assemblies covered under this report have been tested for wind uplift resistance in accordance with FM 4474 or UL1897, and therefore qualify for use under Roofing membranes [Section 1504.3.1](#) of the 2012, 2009 and 2006 IBC.

The roofing assemblies shall be designed to resist the design wind load pressures for components and cladding in accordance with [Section 1609](#) of the 2012, 2009 and 2006 IBC.

**Physical Properties:** The roofing membranes covered under this Report have been tested for physical properties in accordance with ASTM D4637 and ASTM G155, and therefore qualify for use under [Section 1507.12.2](#) and [Section 1504.6](#) of the 2012, 2009 and 2006 IBC.

**Impact Test:** The roofing membranes covered under this Report have been tested for impact resistance in accordance with "Resistance to Foot Traffic Test" in Section 5.5 of FM 4470 and therefore qualify for use under [Section 1504.7](#) of the 2012, 2009 and 2006 IBC.

## 5.2 Membranes

The following roof covers are mechanically attached or fully adhered to Approved substrates using fasteners, stress plates and adhesives, as outlined in the Limitations / Conditions of Use herein.

**5.2.1 FIRE RETARDANT RUBBERGARD AND RUBBERGARD LS-FR** are nominal 45-mil (1.1 mm) or 60-mil (1.5 mm) thick, non-reinforced EPDM based roof membranes.

**5.2.2 RUBBERGARD LS-FR PT** is a nominal 60-mil (1.5 mm) thick, non-reinforced EPDM roof membrane with a 3-inch wide tape, factory-applied seam tape.

**5.2.3 RUBBERGARD EPDM SA** is a nominal 45-mil (1.1 mm) or 60-mil (1.5 mm) thick, self-adhered, non-reinforced EPDM based roof membrane. It is supplied with a factory-applied adhesive film for adhesion to the substrate, and a release paper on the bottom side.

**5.2.4 RUBBERGARD PLATINUM** is a nominal 90-mil (2.2 mm) thick, non-reinforced, black, EPDM based roof membrane, which is also offered with pre-taped edging.

**5.2.5 RUBBERGARD MAX AND RUBBERGARD MAX FR** are nominal 45-mil (1.1 mm), 60-mil (1.5 mm) or 75-mil (1.9 mm) thick, internally-reinforced EPDM based roof membranes.

**5.2.6 RUBBERGARD MAX PT** is a nominal 45-mil (1.1 mm) or 60-mil (1.5 mm) thick, internally reinforced EPDM based roof membranes with a 3-inch wide tape, factory-applied seam tape.

**5.2.7 RUBBERGARD ECOWHITE™** is a nominal 60-mil (1.5 mm) or 90-mil (2.2 mm) thick, non-reinforced, bi-laminate, white-on-black, cured EPDM based roof membrane, , which is also offered with pre-taped edging.

## 5.3 Insulations

Foam Plastic insulation when used shall have a flame spread index of not more than 75 when tested at the maximum thickness intended for use in accordance with ANSI/UL 723 or ASTM E 84 to qualify for use under [Section 2603.3](#) and Exception 3 of the 2012, 2009 and 2006 IBC. To qualify for use under [Section 2603.4.1.5](#) of the 2012, 2009 and 2006 IBC, a thermal barrier is not required for foam plastic insulation that is part of a Class A, B, or C roof-covering assembly, provided the assembly with foam plastic insulation complies with FM 4450 or UL 1256.

## 5.4 Barrier Board

Barrier Board, when used, may consist of 1/4 in. (6.4 mm) minimum Georgia Pacific "DensDeck " board or United States Gypsum Co SECUROCK® Glass-Mat Roof Board (Type SGMRX), National Gypsum "DEXcell Glass Mat Roof Board" or "DEXcell FV Glass Mat Roof Board", CertainTeed Gypsum "GlasRoc" or 1/2 in. (12.7 mm) minimum UL classified gypsum board. When used for direct attachment to combustible deck (OSB or plywood) all joints are to be staggered a minimum of 6 in. from the deck joints.

## 5.5 Cover-Board

Cover-Board, when used, may consist of 1/2 in. minimum ISOGARD HD or RESISTA. Also may consist of 1-1/2-in. minimum HailGard.

## 5.6 Adhesives

**5.6.1** Firestone "I.S.O. Spray™ S" or "I.S.O. Fix II", "I.S.O. Stick", and I.S.O. Twin Pack be used in any systems to adhere insulation to both non-combustible roof deck substrates and other insulation layers including wood fiberboard, cover-boards and gypsum barrier boards.

**5.6.2** Firestone "BA-2004(T)", "Single-ply LVOC Bonding Adhesive", "Single-ply LVOC Bonding Adhesive-1168", "Water Based Bonding Adhesive P", "Modular Water Based Bonding Adhesive" or "EPDM Solvent Free Bonding Adhesive" adhesives designed for bonding Firestone RubberGard EPDM membranes and flashings to insulation layers including wood fiberboard, cover-boards and gypsum barrier boards and Roof Deck Panels.

## 5.7 Fasteners

Fasteners used to mechanically fasten insulation and membranes to the roof deck, shall be corrosion resistant and shall be one of the fasteners identified in Note 2 in the Appendix of this Report.

## 5.8 Asphalt

Hot roofing asphalt, when specified in the roofing assemblies shall conform to ASTM D312, Type III or Type IV.

## 6. INSTALLATION

Firestone single ply membranes shall be installed in accordance with the applicable code, this report and the manufacturer's published installation instructions. The membranes shall be installed in accordance with [Section 1507.12](#) of the 2012, 2009 and 2006 IBC or [Section R905.12](#) of the 2012, 2009 and 2006 IRC as applicable, except as noted in this report.

The manufacturer's published installation instructions shall be available at all times on the jobsite during installation.

The slope of the roof on which the membranes are installed shall be a minimum of 1/4:12 (2% slope) and shall not be more than the maximum slope indicated in UL Online Certifications Directory Roofing Systems (TGFU) and in the Appendix of this Report.

Penetrations and terminations of the roof covering shall be flashed and made watertight in accordance with the requirements of the membrane manufacturer and applicable code.

**6.1** FIRE RETARDANT RUBBERGARD, RUBBERGARD LS-FR, RUBBERGARD LS-FR PT, RUBBERGARD EPDM SA, RUBBERGARD PLATINUM, RUBBERGARD MAX, RUBBERGARD MAX FR, RUBBERGARD MAX PT, and RUBBERGARD ECOWHITE™ membranes are to be installed in accordance with Firestone Building Products published installation instructions.

**6.2** System attachment requirements for wind load resistance are set forth in Appendix 1. Maximum Design Pressure, or MDP, is the result of testing for wind load resistance based on allowable wind loads.

**6.3** For mechanically fastened membrane systems (Type D) over profiled steel deck, membrane shall be installed running perpendicular to steel deck flutes.

## **7. FIRE CLASSIFICATION**

**7.1 New Construction:** Roof assemblies utilizing FIRE RETARDANT RUBBERGARD, RUBBERGARD LS-FR, RUBBERGARD LS-FR PT, RUBBERGARD EPDM SA, RUBBERGARD PLATINUM, RUBBERGARD MAX, RUBBERGARD MAX FR, RUBBERGARD MAX PT, and RUBBERGARD ECOWHITE™ membranes are described in UL Online Certifications Directory Roofing Systems (TGFU) File R9516 and in Tables provided in the Appendix.

**7.2 Reroofing:** The existing roof shall be inspected in accordance with the provisions and limitations of [Section 1510](#) of the 2012, 2009 and 2006 IBC or [Section R907](#) of the 2012, 2009 and 2006 IRC, as applicable. The existing deck shall be inspected to verify that the structure to be reroofed is structurally sound and adequate to support and secure the roofing membrane. Prior to installation of new roof coverings, inspection by and approval from the code official having jurisdiction is required.

FIRE RETARDANT RUBBERGARD, RUBBERGARD LS-FR, RUBBERGARD LS-FR PT, RUBBERGARD EPDM SA, RUBBERGARD PLATINUM, RUBBERGARD MAX, RUBBERGARD MAX FR, RUBBERGARD MAX PT, and RUBBERGARD ECOWHITE™ membranes may be installed over existing Classified Class A, B or C roofing systems as described in the UL Product Certification Category for Roofing Materials (TGFU) File R9516, under the heading of Maintenance and Repair.

## **8. Wind Resistance:**

**8.1 New Construction:** The allowable wind uplift pressures for the roof assemblies are noted in Table 2. Metal edge securement for all systems shall be designed in accordance with ANSI/SPRI ES-1, complying with 2012, 2009 and 2006 IBC [Section 1504.5](#). For certifications of metal edge securement systems in accordance with ANSI/SPRI ES-1, see UL Online Certifications Directory Roof-edge Systems, Metal, for Use with Low-slope Roofing Systems (TGJZ).

**8.2 Reroofing:** Roof covering systems employing mechanical fasteners shall be qualified, to the satisfaction of the code official, as to the adequacy of fasteners penetrating through existing roof coverings into structural substrates. Since the composition and/or condition of any particular underlying existing roofing materials may vary, reroofing material may vary, reroofing with adhered systems is outside the scope of this report.

## **9. CONDITIONS OF USE**

Firestone single ply membranes described in this Report comply with, or are suitable alternatives to, what is specified in those codes listed in Section 2 of this Report, subject to the following conditions:

**9.1** Materials and methods of installation shall comply with this Report and the manufacturer's published installation instructions. In the event of a conflict between the installation instructions and this Report, this Report governs.

**9.2** The membrane is to be installed by authorized applicators approved by Firestone.

**9.3** See UL Online Certifications Directory Roofing Systems (TGFU) File R9516. Also refer to the Appendix provided in this Report.

**9.4** Above-deck thermal insulation board shall comply with the applicable standards listed in Table of [Section 1508.2](#) of the 2012, 2009 and 2006 IBC.

**9.5** Wind uplift pressures on any roof area, including edges and corner zones shall not exceed the allowable wind pressure for the roof covering installed in that particular area. Refer to the Appendix of this report.

**9.6** The allowable wind uplift pressures listed in the Appendix of this report are for the roof systems only. The deck and framing to which the roofing system is attached shall be designed for the applicable components and cladding and wind loads in accordance with the applicable code.

**9.7** When application is over an existing roof, documentation of the wind uplift resistance of the composite roof construction shall be submitted to the code official.

**9.8** The metal edge securement shall be designed and installed for wind loads in accordance with [Chapter 16](#) of the 2012, 2009 and 2006 IBC and test for resistance in accordance with Test Methods RE-1, RE-2, and RE-3 of ANSI/SPRI ES-1, except Vult wind speed shall be determined from [Figure 1609A, 1609B, or 1609C](#) of 2012, 2009 and 2006 IBC, as applicable.

**9.9** The products are manufactured at the locations listed in Table 1 of this Report under the UL LLC Classification and Follow-Up Service Program, which includes audits in accordance with quality elements of ICC-ES Acceptance Criteria for Quality Documentation, AC 10.

## **10. SUPPORTING EVIDENCE**

**10.1** Data in accordance with ICC-ES Acceptance Criteria for Membrane Roof-Covering Systems, AC75.

**10.2** Manufacturer's descriptive product literature, including installation instructions.

**10.3** UL test reports and Classification Reports in accordance with ANSI/UL 790. See UL Product Certification Category for Roofing Systems ([TGFU Link](#)).

**10.4** UL test reports and Classification Reports in accordance with ANSI/UL 1897. See UL Product Certification Category for Roofing Systems ([TGIK Link](#)).

**10.5** Data in accordance with FM 4474.

**10.6** Data in accordance with FM 4470.

**10.7** Data in accordance with ASTM D4637.

**10.8** Data in accordance with ASTM G 155.

**10.9** Documentation of quality system elements in accordance with ICC-ES Acceptance Criteria for Quality Documentation, AC10.

## **11. IDENTIFICATION**

Firestone single ply membranes described in this Evaluation Report are identified by a marking bearing the report holder's name (Firestone), the plant identification, the product name, the UL Classification Mark and the evaluation report number UL ER9516-02. The validity of this Evaluation Report is contingent upon this identification appearing on the product.

## **12. USE OF UL EVALUATION REPORT**

**12.1** The approval of building products, materials or systems is under the responsibility of the applicable authorities having jurisdiction.

**12.2** UL Evaluation Reports shall not be used in any manner that implies an endorsement of the product, material or system by UL.

**12.3** The current status of this report, as well as a complete directory of UL Evaluation Reports may be found at UL.com via our On-Line Certifications Directory at [www.UL.com/erdirectory](http://www.UL.com/erdirectory).

**Table 1 – Manufacturing Locations**

<b>LISTEE</b>	<b>LOCATION</b>	<b>FACTORY ID</b>
Firestone Building Products Co L L C	Prescott AR 71857	A1

## APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

Table	Deck	Application	Type	Description
<a href="#">1A</a>	Wood	New, Reroof (Tear-Off)	A-1A	Bonded Insulation, Bonded Roof Cover
<a href="#">1B</a>	Wood	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover
<a href="#">1C</a>	Wood	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover (Stress Plates)
<a href="#">1D</a>	Wood	New, Reroof (Tear-Off), Recover	D-2	Insulated, Mechanically Attached Roof Cover (Battens)
<a href="#">1E</a>	Wood	New Construction	F	Non-Insulated, Bonded Roof Cover
<a href="#">2A</a>	Steel or Conc.	New, Reroof (Tear-Off), Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover
<a href="#">2B</a>	Steel or Conc.	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover
<a href="#">2C</a>	Steel or Conc.	New, Reroof (Tear-Off), Recover	D-1A	Insulated, Mechanically Attached Roof Cover (Stress Plates)
<a href="#">2D</a>	Steel or Conc.	New, Reroof (Tear-Off), Recover	D-1B	Insulated, Mechanically Attached Roof Cover (Battens)
<a href="#">2E</a>	Steel or Conc.	New, Reroof (Tear-Off), Recover	D-1C	Insulated, Mechanically Attached Roof Cover (RMA Strips)
<a href="#">2F</a>	Steel or Conc.	New, Reroof (Tear-Off)	E-1	Vapor retarder, Insulated Mechanically Attached Roof Cover
<a href="#">2G</a>	Steel or Conc.	New, Reroof (Tear-Off)	E-2	Vapor retarder, Bonded Insulation, Bonded Roof Cover
<a href="#">3A</a>	Concrete	New, Reroof (Tear-Off)	A-1A	Bonded Insulation, Bonded Roof Cover
<a href="#">3B</a>	Concrete	New, Reroof (Tear-Off)	A-1B	Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover
<a href="#">4A</a>	CWF	New, Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover
<a href="#">4B</a>	CWF	New, Reroof (Tear-Off)	C	Mechanically Attached Insulation, Bonded Roof Cover
<a href="#">5A</a>	Gypsum	Reroof (Tear-Off)	A-1A	Bonded Insulation, Bonded Roof Cover
<a href="#">6A</a>	Various	Recover	A-1A	Bonded Insulation, Bonded Roof Cover
<a href="#">6B</a>	Steel	Recover	D-1B	Insulated, Mechanically Attached Roof Cover (Battens)
<a href="#">6C</a>	Steel	Recover	D-1C	Insulated, Mechanically Attached Roof Cover (RMA Strips)

### The following notes apply to the systems outlined herein:

- Roof decks shall be in accordance with IBC requirements to the satisfaction of the AHJ. Wind load resistance of the roof deck shall be documented through proper codified Approval documentation.
- Unless otherwise noted, fasteners and stress plates for insulation attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:
  - Wood Deck: Firestone All-Purpose or Heavy-Duty Fasteners with Firestone Insulation Fastening Plates. Minimum ¾-inch plywood penetration or 1-inch wood plank embedment. (NOTE: Systems with ISO 95+ GL Insulation only require a layer of minimum ¼" thick, DensDeck or DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board for fire barrier classification.)
  - Steel Deck: Firestone All-Purpose or Heavy-Duty Fasteners with Firestone Insulation Fastening Plates. Minimum ¾-inch steel penetration, engage the top flute of the steel deck.



- Concrete Deck: Firestone All-Purpose, Heavy-Duty or Concrete Drive Fasteners with Firestone Insulation Fastening Plates. Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions.
3. Unless otherwise noted, insulation may be one or more layers or a combination of specified polyisocyanurate, any source of wood fiberboard or perlite, specified Cover-Boards or specified Barrier Boards (Gypsum).
  4. Minimum 200 psi, minimum 2-inch thick lightweight insulating concrete (LWIC) may be substituted for rigid insulation board for System Type D (mechanically attached membrane), whereby the membrane fasteners are installed through the LWIC to engage the structural steel or concrete deck. The structural deck shall be of equal or greater configuration to the steel and concrete deck listings.
  5. Preliminary insulation attachment for System Type D = Minimum four fasteners per 4 x 8 ft board or minimum two fasteners per 4 x 4 ft board.
  6. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions:
    - Firestone I.S.O. FIX II: Continuous ¾ to 1-inch wide ribbons, 12-inch o. c.
    - Firestone I.S.O. Twin Pack: Continuous ½ to ¾-inch beads, 12-inch o. c.
    - Firestone I.S.O. Stick: Continuous ¾ to 1-inch wide ribbons, 12-inch o. c.
    - Firestone I.S.O. Spray S: Continuous ¾ to 1-inch wide ribbons, 12-inch o. c.
    - ADCO Millennium PG-1 Fleece-back: Continuous ¾ to 1-inch ribbons, 12-inch o. c.
  7. Unless otherwise noted, all insulations or Cover-Boards are flat stock or taper board of the minimum thickness noted.

Tapered ISO 95+ GL at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations.

• Firestone I.S.O. FIX II:	MDP	-172.5 psf	(Minimum 0.5-inch thick)
• Firestone I.S.O. Twin Pack:	MDP	-217.5 psf	(Minimum 0.5-inch thick)
• Firestone I.S.O. Stick:	MDP	-187.5 psf	(Minimum 0.5-inch thick)
• Firestone I.S.O. Spray S:	MDP	-172.5 psf	(Minimum 0.5-inch thick)
• ADCO Millennium PG-1 Fleece-back:	MDP	-187.5 psf	(Minimum 0.5-inch thick)

Tapered RESISTA at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations.

• Firestone I.S.O. FIX II, 12 inch o.c.:	MDP	-165.0 psf	(Minimum 0.5-inch thick)
• Firestone I.S.O. Twin Pack:	MDP	-405.0 psf	(Minimum 0.5-inch thick)
• Firestone I.S.O. Stick:	MDP	-217.5 psf	(Minimum 0.5-inch thick)
• Firestone I.S.O. Spray S:	MDP	-405.0 psf	(Minimum 0.5-inch thick)
• Firestone I.S.O. FIX II, 12 inch o.c.:	MDP	-187.5 psf	(Minimum 0.5-inch thick)
• Firestone I.S.O. Twin Pack:	MDP	-405.0 psf	(Minimum 0.5-inch thick)
• Firestone I.S.O. Spray S 12 inch o.c.:	MDP	-165.0 psf	(Minimum 0.5-inch thick)
• Firestone I.S.O. Spray S 6 inch o.c.:	MDP	-405.0 psf	(Minimum 0.5-inch thick)

8. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
9. For System Type D, steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.
10. For Recover Applications using System Type D, the insulation is optional. Alternatively, min. 0.5-inch ISOGARD HD or min. 0.25-inch to 0.625-inch Barrier Boards (Gypsum) may be used as a separator board, preliminarily attached prior to roof cover installation. The existing roof system shall be suitable for a recover application.

11. For systems listed in Tables 2A and 2B, vapor retarder is optional. A 4-6 mil thick polyethylene sheet with 2-inch (50 mm) wide laps sealed with duct tape can be applied to decks. Or V-Force can be applied to a minimum ¼-inch thick thermal barrier loose laid over deck (V-Force SB Primer, SA-Solvent Based (SB) Primer, or SA-LVOC Primer roller applied may be applied to the thermal barrier prior to V-Force installation.
12. For membrane attachment using batten-strips, batten-strip end laps shall be spliced with sufficient dimension to allow for minimum 2-fasteners at each batten-strip lap.
13. Side laps shall be sealed in accordance with Firestone requirements:
  - EcoWhite side and end lap seams are primed with Firestone QuickPrime Plus Primer or Firestone QuickPrime Plus LVOC Primer and sealed with Firestone EcoWhite QuickSeam Splice Tape or Firestone EcoWhite EPDM Splice Adhesive.
  - All other black, non-“PT” RubberGard EPDM side and end lap seams are primed with Firestone QuickPrime, QuickPrime Plus or QuickPrime LVOC Primer and sealed with Firestone RubberGard SA-1065 Splice Adhesive or QuickSeam Splice Tape.
  - Firestone EPDM “PT” side laps are primed with QuickPrime Plus or QuickPrime LVOC Primer and sealed with the factory-applied, 3-inch seam tape.
14. Membrane adhesive application rates are as follows:
  - Firestone BA-2004(T) applied to both the substrate and the bottom side of the roof cover at a rate of 120 ft<sup>2</sup>/gallon per side for a combined rate of 60 ft<sup>2</sup>/gallon.
  - Firestone Water Based Bonding Adhesive P (henceforth “WBBA-P”) or Modular Water Based Bonding Adhesive applied to both the substrate and the bottom side of the roof cover at a rate of 240 ft<sup>2</sup>/gallon per side for a combined rate of 120 ft<sup>2</sup>/gallon.
  - Firestone Single-Ply LVOC Bonding Adhesive (henceforth “LVOC BA”) applied to both the substrate and the bottom side of the roof cover at a rate of 120 ft<sup>2</sup>/gallon per side for a combined rate of 60 ft<sup>2</sup>/gallon.
  - Firestone Single-Ply LVOC Bonding Adhesive 1168 (henceforth “LVOC BA1168”) applied to both the substrate and the bottom side of the roof cover at a rate of 120 ft<sup>2</sup>/gallon per side for a combined rate of 60 ft<sup>2</sup>/gallon.
  - Firestone EPDM Solvent Free Bonding Adhesive (henceforth “EPDM SFBA”) applied to substrate only at a rate of 150 ft<sup>2</sup>/gallon.
15. “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind pressures.

Table 1A: Wood Decks- New Construction, Reroof (Tear off) System Type A-1A: Bonded Insulation, Bonded Roof Cover										
System No.	Deck (See Note 1)	Insulation				Roof Cover		MDP (psf)	Fire Rating UL790/E108	
		Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Membrane	Adhesive		Class	Max Incline (in.)
W-1	Min. 15/32-inch plywood at max. 24-inch spans attached using 8d ring shank nails spaced 6-inch o.c.	Min. 0.25-inch thick, DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board (See "NOTE" in note 2, wood deck); Optional insulation	I.S.O. Stick; ribbons 12-inch o.c.	Min. 1-inch ISO 95+ GL, RESISTA	I.S.O. Stick; ribbons 12-inch o.c.	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/2

TABLE 1B: WOOD DECKS - NEW CONSTRUCTION or REROOF (Tear-Off) or RECOVER SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER										
System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Fasteners	Attachment Rate	Type	Adhesive		Class	Max Incline (in.)
W-2	Min. 19/32-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	Min. 0.25-inch thick, DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board; (Optional) One or more layers, any combination, loose laid ISOGARD HD or RESISTA or ISO 95+ GL	Min. 1.5-inch ISO 95+ GL	See Note 2	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/4
W-3	Min. 19/32-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	(Optional) Min. 1.0" thick, ISO 95+ GL or Resista; one or more layers, loose laid	Min. 0.5-inch, SECUROCK Gypsum-Fiber Board	See Note 2	1 per 4.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), EPDM SFBA	-35.0	A	1/4
W-4	Min. 15/32-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	(Optional) One or more layers, any combination, loose laid ISOGARD HD or RESISTA or ISO 95+ GL	Min. 1.5-inch ISOGARD HD Composite	See Note 2	1 per 2.7 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 1B: WOOD DECKS - NEW CONSTRUCTION or REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER (continued)**

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Fasteners	Attachment Rate	Type	Adhesive		Class	Max Incline (in.)
W-5	Min. 15/32-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	(Optional) Min. 1.0" thick, ISO 95+ GL or Resista; one or more layers, loose laid	Min. 0.5-inch, SECUROCK Gypsum-Fiber Board	See Note 2	1 per 4.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-37.5	A	1/2
W-6	Min. 15/32-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	(Optional) Min. 1.0" thick, ISO 95+ GL or Resista; one or more layers, loose laid	Min. 0.25-inch, SECUROCK Gypsum-Fiber Board	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1/2
W-7	Min. 15/32-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	(Optional) Min. 1.0" thick, ISO 95+ GL or Resista; one or more layers, loose laid	Min. 0.5-inch, SECUROCK Gypsum-Fiber Board	See Note 2	1 per 2.13 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-52.5	A	1/2
W-8	Min. 15/32-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	(Optional) Min. 1.0" thick, ISO 95+ GL or Resista; one or more layers, loose laid	Min. 0.5-inch, SECUROCK Gypsum-Fiber Board	See Note 2	1 per 1.8 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-67.5	A	1/2
W-9	Min. 3/4-inch plywood or wood plank.	(Optional) One or more layers, any combination, loose laid ISOGARD HD or RESISTA or ISO 95+ GL	7/16-inch OSB	See Note 2	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/2
W-10	Min. 3/4-inch plywood or wood plank.	(Optional) One or more layers, any combination, loose laid ISOGARD HD or RESISTA or ISO 95+ GL	Min. 1.5-inch Firestone HailGard	See Note 2	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 1B: WOOD DECKS - NEW CONSTRUCTION or REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER (continued)**

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Fasteners	Attachment Rate	Type	Adhesive		Class	Max Incline (in.)
W-11	Min. 19/32-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	Min. 0.25-inch thick, DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board; (Optional) One or more layers, any combination, loose laid ISOGARD HD or RESISTA or ISO 95+ GL	Min. 2.0-inch ISO 95+GL	See Note 2	1 per 1.8 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1/2
W-12	Min. 19/32-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	(Optional) One or more layers, any combination, loose laid ISOGARD HD or RESISTA or ISO 95+ GL	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1-1/2
W-13	Min. 19/32-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	(Optional) One or more layers, any combination, loose laid ISOGARD HD or RESISTA or ISO 95+ GL	Min. 0.5-inch DensDeck Prime	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-45.0	A	1-1/2
W-14	Min. 19/32-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	(Optional) Min. 0.5-inch thick, ISO 95+ GL or RESISTA, one or more layers, loose laid	Min. 0.5-inch DensDeck Prime	See Note 2	1 per 1.8 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-52.5	A	1-1/2
W-15	Min. 19/32-inch plywood, APA Span-Rated, over nominal No. 2 wood trusses at 24-inch o.c.	(Optional) Min. 1.0-inch thick, ISO 95+ GL or RESISTA, one or more layers, loose laid	Min. 0.25-inch thick, DensDeck or SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 2.13 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1-1/2
W-16	Min. 19/32-inch OSB, APA Span-Rated, over nominal No. 2 wood trusses at 24-inch o.c.	(Optional) Min. 1.0-inch thick, ISO 95+ GL or RESISTA, one or more layers, loose laid	Min. 0.25-inch thick, DensDeck or SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 2.13 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1-1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

TABLE 1B: WOOD DECKS - NEW CONSTRUCTION or REROOF (Tear-Off) or RECOVER SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER (continued)										
System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Fasteners	Attachment Rate	Type	Adhesive		Class	Max Incline (in.)
W-17	Min. 7/16-inch OSB, APA Span-Rated, over nominal No. 2 wood trusses at 24-inch o.c.	(Optional) Min. 1.0-inch thick, ISO 95+ GL or RESISTA, one or more layers, loose laid	Min. 0.25-inch thick, DensDeck or SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 2.7 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1-1/2
W-18	Min. 7/16-inch OSB, APA Span-Rated, over nominal No. 2 wood trusses at 24-inch o.c.	(Optional) Min. 1.0-inch thick, ISO 95+ GL or RESISTA, one or more layers, loose laid	Min. 0.25-inch thick, DensDeck Prime	See Note 2	1 per 2.7 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-37.5	A	1-1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

TABLE 1C: WOOD DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER SYSTEM TYPE D-1A: INSULATED, MECHANICALLY ATTACHED ROOF COVER (STRESS PLATES)									
System No.	Deck (See Note 1)	Insulation		Roof Cover			MDP (psf)	Fire Rating UL790/E108	
		Type	Attachment	Membrane	Fasteners	Attachment Rate		Class	Max Incline (in.)
W-19	Min. 3/4-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	Min. 0.25-inch thick, DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board; Min. 1.5-inch thick ISO 95+GL	Preliminarily attached	Max or Max FR	Firestone AP Fasteners or Firestone HD Fasteners with Firestone Seam Plates	6-inch o.c. within 7-inch wide laps spaced 84-inch o.c.	-45.0	A	1/4
W-20	Min. 3/4-inch plywood or wood plank at max. 24-inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	Min. 0.25-inch thick, DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board; Min. 1.5-inch thick ISO 95+GL	Preliminarily attached	Min. 60 mil Max or Max FR	Firestone AP Fasteners or Firestone HD Fasteners with Firestone Seam Plates	6-inch o.c. within 7-inch wide laps spaced 114-inch o.c.	-45.0	A	1/4

**TABLE 1D: WOOD DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE D-1B: INSULATED, MECHANICALLY ATTACHED ROOF COVER (BATTENS)**

System No.	Deck (See Note 1)	Insulation		Roof Cover			MDP (psf)	Fire Rating UL790/E108	
		Type	Attachment	Membrane	Fasteners	Attachment Rate		Class	Max Incline (in.)
W-21	Min. 3/4-inch plywood or wood plank at max. 24- inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	Min. 0.25-inch thick, DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board; Min. 1.5-inch thick ISO 95+GL	Preliminarily attached	Platinum, Max or Max FR	Firestone AP Fasteners or Firestone HD Fasteners with Firestone Batten Strip or Polymer Batten Strip	6-inch o.c. within 7-inch wide laps spaced 72-inch o.c.	-30.0	A	1/4
W-22	Min. 3/4-inch plywood or wood plank at max. 24- inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	Min. 0.25-inch thick, DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board; Min. 1.5-inch thick ISO 95+GL	Preliminarily attached	Max or Max FR	Firestone AP Fasteners or Firestone HD Fasteners with Firestone Batten Strip or Polymer Batten Strip	6-inch o.c. within 7-inch wide laps spaced 84-inch o.c.	-45.0	A	1/4
W-23	Min. 3/4-inch plywood or wood plank at max. 24- inch spans attached using 8d smooth or ring shank nails spaced 6-inch o.c.	Min. 0.25-inch thick, DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board; Min. 1.5-inch thick ISO 95+GL	Preliminarily attached	Max or Max FR	Firestone AP Fasteners or Firestone HD Fasteners with Firestone Batten Strip or Polymer Batten Strip	6-inch o.c. within 7-inch wide laps spaced 114- inch o.c.	-45.0	A	1/4

**TABLE 1E: WOOD DECKS – NEW CONSTRUCTION  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Roof Deck	Roof Cover		MDP (psf)	Fire Rating UL790/E108	
		Membrane	Application		Class	Max Incline (in.)
W-24	Min. 7/16-inch thick, UL Classified Firestone CoverDX™ Roof Deck Panel attached to wood supports spaced max. 24-inch o.c. using 8d common nails spaced 6-inch o.c. at all supports.	Fire Retardant, LS-FR, LS-FR PT or MAX FR	Firestone Modular Water Based Bonding Adhesive WBA-3781 at 120 ft <sup>2</sup> per gallonlon.	-82.5	C	2
W-25	Min. 7/16-inch thick, UL Classified Firestone CoverDX™ Roof Deck Panel attached to wood supports spaced max. 24-inch o.c. using Spax™ No. 8 x 2-inch long wood to wood screws spaced 6- inch o.c. at all supports.	Fire Retardant, LS-FR, LS-FR PT or MAX FR	Firestone Modular Water Based Bonding Adhesive WBA-3781 at 120 ft <sup>2</sup> per gallonlon.	-105.0	C	2

**TABLE 2A: STEEL or CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover		MDP (psf)	Fire Rating UL790/E108	
		Type	Fastener	Attachment Rate	Type	Attachment	Type	Adhesive		Class	Max Incline (in.)
SC-1	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ISO 95+ GL	See note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck or DensDeck Prime	I.S.O. Twin Pack, I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-45.0	A	1-1/2
SC-2	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ISO 95+ GL	See note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime	I.S.O. Twin Pack, I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-45.0	A	1-1/2
SC-3	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ISO 95+ GL	See note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack, I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1/2
SC-4	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 0.5-inch DensDeck Prime	See note 2	1 per 2.0 ft <sup>2</sup>	Min. 1.5-inch RESISTA followed by optional min. 0.5-inch RESISTA	I.S.O. FIX II, I.S.O. Twin Pack, I.S.O. Stick, I.S.O. Spray S	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/2
SC-5	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch RESISTA	See note 2	1 per 2.0 ft <sup>2</sup>	Min. 1.5-inch RESISTA	I.S.O. FIX II, I.S.O. Twin Pack, I.S.O. Stick, I.S.O. Spray S	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/2
SC-6	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch RESISTA	See note 2	1 per 2.0 ft <sup>2</sup>	Min. 1.5-inch RESISTA	I.S.O. FIX II, I.S.O. Twin Pack, I.S.O. Stick, I.S.O. Spray S	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).



**TABLE 2A: STEEL or CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off) or RECOVER**  
**SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER (continued)**

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover		MDP (psf)	Fire Rating UL790/E108	
		Type	Fastener	Attachment Rate	Type	Attachment	Type	Adhesive		Class	Max Incline (in.)
SC-7	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 2.0-inch RESISTA	See note 2	1 per 2.0 ft <sup>2</sup>	Min. 0.5-inch RESISTA	I.S.O. FIX II, I.S.O. Twin Pack, I.S.O. Stick, I.S.O. Spray S	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/2
SC-8	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch ISO 95+ GL	See note 2	1 per 2.0 ft <sup>2</sup>	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, WBBA-P	-75.0	A	1/4
SC-9	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 1.5-inch RESISTA	See note 2	1 per 2.0 ft <sup>2</sup>	Min. 1.5-inch RESISTA	I.S.O. FIX II, I.S.O. Twin Pack, I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, WBBA-P	-75.0	A	1/2
SC-10	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 2.0-inch RESISTA	See note 2	1 per 2.0 ft <sup>2</sup>	Min. 1.5-inch RESISTA	I.S.O. FIX II, I.S.O. Twin Pack, I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, WBBA-P	-120.0	A	1/2
SC-11	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 0.5-inch DensDeck Prime	See note 2	1 per 2.0 ft <sup>2</sup>	V-Force Vapor barrier-self-adhered Min. 1-inch ISO 95+ GL Min. 0.25-inch DensDeck Prime	ADCO Millennium PG-1 Fleeceback Adhesive	EcoWhite	LVOC BA	-45.0	A	1/2
SC-12	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi concrete	Min. 0.5-inch DensDeck Prime	See note 2	1 per 4.0 ft <sup>2</sup>	V-Force Vapor barrier-self-adhered; Min. 0.5-inch ISO 95+ GL, Min. 0.25-inch DensDeck Prime	ADCO Millennium PG-1 Fleeceback Adhesive	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA, LVOC BA1168	-45.0	A	1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 2B: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Fasteners	Attachment Rate	Type	Adhesive		Class	Max Incline (in.)
SC-13	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL	Min.0.25-inch DensDeck Prime	See Note 2	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	WBBA-P	-30.0	A	1-1/2
SC-14	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL	Min. 0.5-inch ISO 95+ GL	See Note 2	1 per 4.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-30.0	A	1/4
SC-15	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL	Min. 1.5-inch ISO 95+ GL	See Note 2	1 per 2.7 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-30.0	A	1/4
SC-16	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) Min. 1.0-inch ISO 95+ GL	Min. 1.0-inch RESISTA	See Note 2	1 per 3.2 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-30.0	A	1/2
SC-17	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL	Min. 1.0-inch ISO 95+ GL	See Note 2	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-30.0	A	1/4
SC-18	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 4.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA1168, EPDM SFBA	-37.5	A	1-1/2
SC-19	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick, ISO 95+ GL, ISO 95+ GL, RESISTA, or ISOGARD HD Composite; one or more layers, loose laid	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	See Note 2	1 per 4.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1-1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 2B: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER (continued)**

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Fasteners	Attachment Rate	Type	Adhesive		Class	Max Incline (in.)
SC-20	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL, one or more layers, any combination, loose laid	ISOGARD HD	See Note 2	1 per 2.7 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	WBBA-P	-37.5	A	1/2
SC-21	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL	Min. 2.0-inch RESISTA	See Note 2	1 per 5.3 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-37.5	A	1/2
SC-22	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch thick, ISO 95+ GL or RESISTA; one or more layers, loose laid	Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board	See Note 2	1 per 3.2 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-30.0	A	1/2
SC-23	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch thick, ISO 95+ GL, RESISTA, or ISOGARD HD; one or more layers, loose laid	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	See Note 2	1 per 2.7 ft <sup>2</sup>	Min. 60 mil; Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA, LVOC BA1168	-37.5	A	1/2
SC-24	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ISO 95+ GL, one or more layers, any combination, loose laid	Min. 0.25inch SECUROCK	See Note 2	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), BA-2004, LVOC BA, EPDM SFBA	-45.0	A	1-1/2
SC-25	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) Min. 1.0-inch ISO 95+ GL One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 2	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/4
SC-26	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) Min. 1.0-inch ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-inch ISO 95+ GL	See Note 2	1 per 4.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/4

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 2B: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER (continued)**

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Fasteners	Attachment Rate	Type	Adhesive		Class	Max Incline (in.)
SC-27	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) Min. 1.0-inch ISO 95+ GL One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 2	1 per 2.7 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1/4
SC-28	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick, ISO 95+ GL one or more layers, any combination, loose laid	Min.0.25-inch DensDeck Prime	See Note 2	1 per 1.8 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1-1/2
SC-29	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick, ISO 95+ GL one or more layers, any combination	Min. 0.5-inch ISOGARD HD	See Note 2	1 per 2.7 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/2
SC-30	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick, ISO 95+ GL one or more layers, any combination, loose laid	7/16-inch OSB	See Note 2	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/2
SC-31	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 1.5-inch Firestone HailGard	See Note 2	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/2
SC-32	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 1.0-inch RESISTA	See Note 2	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1/2
SC-33	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 1.5-inch RESISTA	See Note 2	1 per 2.7 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1/2
SC-34	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-inch RESISTA	See Note 2	1 per 4.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/2
SC-35	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-inch ISO 95+ GL	See Note 2	1 per 2.7 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/4

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 2B: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER (continued)**

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Fasteners	Attachment Rate	Type	Adhesive		Class	Max Incline (in.)
SC-36	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 1.5-inch Firestone HailGuard	See Note 2	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168	-75.0	A	1/2
SC-37	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick, ISO 95+ GL one or more layers, any combination, loose laid	Min.0.5-inch DensDeck Prime	See Note 2	1 per 1.3 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168,	-75.0	A	1-1/2
SC-38	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 1.5-inch RESISTA	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, WBBA-P	-75.0	A	1/2
SC-39	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick, ISO 95+ GL one or more layers, any combination, loose laid	Min. 5/8-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA,	-82.5	A	1-1/2
SC-40	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	See Note 2	1 per 1.3 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168	-82.5	A	1/4
SC-41	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-inch ISO 95+ GL	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168	-82.5	A	1/4
SC-42	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-in RESISTA	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, WBBA-P	-82.5	A	1/2
SC-43	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick, ISO 95+ GL one or more layers, any combination, loose laid	Min.0.5-inch DensDeck Prime	See Note 2	1 per 1.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168	-105.0	A	1-1/2
SC-44	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-inch RESISTA	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168 WBBA-P	-105.0	A	1/2
SC-45	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-inch ISO 95+ GL	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168	-112.5	A	1/4

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 2B: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVERA  
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER (continued)**

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Fasteners	Attachment Rate	Type	Adhesive		Class	Max Incline (in.)
SC-46	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 1.5-inch ISO GARD HD Composite	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA, LVOC BA1168	-112.5	A	1/2
SC-47	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-inch ISO 95+ GL	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-112.5	A	1/4
SC-48	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-inch RESISTA	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168	-112.5	A	1/2
SC-49	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-inch ISO 95+ GL	See Note 2	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-120.0	A	1/4
SC-50	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick, ISO 95+ GL one or more layers, any combination, loose laid	7/16-inch OSB	See Note 2 (HD only for steel)	1 per 1.6 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-142.5	A	1/2
SC-51	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 1.5-inch Firestone HailGard	See Note 2 (HD only for steel)	1 per 1.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-142.5	A	1/2
SC-52	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-inch RESISTA	See Note 2	1 per 1.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-142.5	A	1/2
SC-53	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-inch ISO 95+ GL	See Note 2	1 per 1.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA	-150.0	A	1/4
SC-54	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 2.0-in RESISTA	See Note 2	1 per 1.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA	-150.0	A	1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

TABLE 2B: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER (continued)										
System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Fasteners	Attachment Rate	Type	Adhesive		Class	Max Incline (in.)
SC-55	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick, ISO 95+ GL one or more layers, any combination, loose laid	7/16-inch OSB	See Note 2 (HD only for steel)	1 per 1.0 ft <sup>2</sup>	FR, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA	-180.0	A	1/2
SC-56	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) ISO 95+ GL One or more layers, any combination, loose laid	Min. 1.5-inch Firestone HailGard	See Note 2 (HD only for steel)	1 per 1.0 ft <sup>2</sup>	FR, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA	-180.0	A	1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

TABLE 2C: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER SYSTEM TYPE D-1A: INSULATED, MECHANICALLY ATTACHED ROOF COVER (STRESS PLATES)									
System No.	Deck (See Note 1)	Insulation		Roof Cover			MDP (psf)	Fire Rating UL790/E108	
		Type	Attachment	Membrane	Fasteners	Attachment Rate		Class	Max Incline (in.)
SC-57	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Max or Max FR	Firestone AP Fasteners (steel only) or Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only) with Firestone V-Plates	6-inch o.c. within 7-inch wide laps spaced 84-inch o.c.	-52.5	A	1/4
SC-58	Min. 22 ga., type B, Grade 80 steel or min. 20 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Min. 60 mil Max or Max FR	Firestone AP Fasteners (steel only) or Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only) with Firestone V-Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c.	-52.5	A	1/4

**TABLE 2D: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE D-1B: INSULATED, MECHANICALLY ATTACHED ROOF COVER (BATTENS)**

System No.	Deck (See Note 1)	Insulation		Roof Cover			MDP (psf)	Fire Rating UL790/E108	
		Type	Attachment	Membrane	Fasteners	Attachment Rate		Class	Max Incline (in.)
SC-59	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR	Firestone AP Fasteners (steel only) or Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only) with Firestone Batten Strip or Polymer Batten Strip	Fasteners 6-inch o.c. through batten in field of the roof spaced 72-inch o.c. Screw heads topped with fastener sealer. Batten strips sealed with 6-inch cover-strip.	-30.0	A	1/4
SC-60	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT MAX FR	Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only) with Firestone Coiled Metal Batten Strip	Fasteners 12-inch o.c. through batten within 7-inch wide laps spaced 84-inch o.c.	-30.0	A	1/4
SC-61	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR	Firestone AP Fasteners (steel only) or Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only) with Firestone Batten Strip or Polymer Batten Strip	Fasteners 6-inch o.c. through batten within 6-inch wide laps spaced 72-inch o.c.	-30.0	A	1/4
SC-62	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT MAX FR	Firestone AP Fasteners (steel only) or Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only) with Firestone Batten Strip	Fasteners 6-inch o.c. through batten within 7-inch wide laps spaced 72-inch o.c.	-45.0	A	1/4
SC-63	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Max, Max PT, Max FR	Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only) with Firestone Coiled Metal Batten Strip	Fasteners 12-inch o.c. through batten within 6-inch wide laps spaced 84-inch o.c.	-52.5	A	1/4
SC-64	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 1.4-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Max, Max PT, Max FR	Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only) with Firestone Coiled Metal Batten Strip	Fasteners 6-inch o.c. through batten within 6-inch wide laps spaced 114-inch o.c.	-45.0	A	1/4
SC-65	Min. 22 ga., type B, Grade 80 steel or min. 20 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Max or Max FR	Firestone AP Fasteners (steel only) or Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only) with Polymer Batten Strip	Fasteners 6-inch o.c. through batten within 6-inch wide laps spaced 115-inch o.c.	-52.5	A	1/4



**TABLE 2D: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE D-1B: INSULATED, MECHANICALLY ATTACHED ROOF COVER (BATTENS) (continued)**

System No.	Deck (See Note 1)	Insulation		Roof Cover			MDP (psf)	Fire Rating UL790/ASTM E108	
		Type	Attachment	Membrane	Fasteners	Attachment Rate		Class	Max Incline (in.)
SC-66	Min. 22 ga., type B, Grade 80 steel or min. 20 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Max or Max FR	Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only)with Firestone Coiled Metal Batten Strip	Fasteners 12-inch o.c. through batten in field of the roof spaced 114-inch o.c. Screw heads topped with fastener sealer. Batten strips sealed with 6-inch cover-strip.	-60.0	A	1/4
SC-67	Min. 22 ga., type B, Grade 80 steel or min. 20 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Max or Max FR	Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only)with Firestone Coiled Metal Batten Strip	Fasteners 12-inch o.c. through batten within 6-inch wide laps spaced 114-inch o.c.	-60.0	A	1/4
SC-68	Min. 22 ga., type B, Grade 80 steel or min. 20 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Max or Max FR	Firestone HD Fasteners with Firestone Batten Strip	Fasteners 12-inch o.c. through batten within 7-inch wide laps spaced 114-inch o.c. and applied in two equally spaced rows in field of the roof cover centered between and parallel with the laps, resulting in battens spaced 38-inch o.c. Field batten strips sealed with 6-inch cover-strip	-82.5	A	1/4
SC-69	Min. 22 ga., type B, Grade 80 steel or min. 20 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR	TruFast HD Fasteners with TruFast BB-18 Batten Bar	Fasteners 6-inch o.c. through batten in field of the roof spaced 24-inch o.c. Batten strips sealed with 6-inch cover-strip.	-82.5	A	1/4

**TABLE 2E: STEEL or CONCRETE DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE D-1C: INSULATED, MECHANICALLY ATTACHED ROOF COVER (RMA Strips)**

System No.	Deck (See Note 1)	Insulation		Roof Cover			MDP (psf)	Fire Rating UL790/ASTM E108	
		Type	Attachment	Membrane	Fasteners	Attachment Rate		Class	Max Incline (in.)
SC-70	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR	Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only) with Firestone Batten Strip or Coiled Metal Batten Strip	QuickSeam R.M.A. Strips are applied over the insulation spaced 84-inch o.c. The batten is centered over each strip and fastened 6-inch o.c. Roof cover adhered to each strip by first priming with QuickPrime Plus at the strip location, then rolling into place with a hand roller.	-30.0	A	1/4
SC-71	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR	Firestone HD Fasteners or Firestone Concrete Drive Fasteners (concrete only) with Firestone Batten Strip or Coiled Metal Batten Strip	QuickSeam R.M.A. Strips are applied over the insulation spaced 72-inch o.c. The batten is centered over each strip and fastened 12-inch o.c. Roof cover adhered to each strip by first priming with QuickPrime Plus at the strip location, then rolling into place with a hand roller.	-37.5	A	1/4
SC-72	Min. 22 ga., type B, Grade 80 steel or min. 20 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR	Firestone AP Fasteners (steel only) or Firestone HD Fasteners with Firestone Polymer Batten Strip	QuickSeam R.M.A. Strips are applied over the insulation spaced 114-inch o.c. The batten is centered over each strip and fastened 6-inch o.c. Roof cover adhered to each strip by first priming with QuickPrime Plus at the strip location, then rolling into place with a hand roller.	-45.0	A	1/4
SC-73	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 1.5-inch thick ISO 95+ GL, one or more layers	Preliminarily attached	MAX, MAX PT, MAX FR	Firestone HD Fasteners with Firestone Polymer Batten Strip	QuickSeam R.M.A. Strips are applied over the insulation spaced 120-inch o.c. The batten is centered over each strip and fastened 6-inch o.c. Roof cover adhered to each strip by first priming with QuickPrime Plus at the strip location, then rolling into place with a hand roller.	-52.5	A	1/4

**Table 2F: Steel or Concrete Decks – New Construction or Reroof (Tear-off)  
System Type F: Vapor retarder, insulated Mechanically Attached Roof Cover**

System No.	Deck (See Note 1)	Vapor Retarder	Insulation				Roof Cover		MDP (psf)	Fire Rating UL790/ASTM E108	
			Base Insulation	Base Insulation attachment	Top Insulation	Top Insulation Attachment	Membrane	Membrane Attachment Rate		Class	Max Incline (in.)
SC-74	Min. 22 ga., type B, Grade 33 steel or structural concrete	V-Force Vapor Barrier Membrane adhered to steel deck	Optional insulation	Preliminary secured or secured with Top layer	Min. 0.5-inch ISO 95+ GL	Insulation Fastening Plates and Firestone All-Purpose fasteners secured 4 per 4 x 8 board	Max or Max FR	Attached in lap 12-inch o.c. with HD Fasteners & V-Plates, row spacing 114 inch o.c.	-75.0	A	1/2
SC-75	Min. 22 ga., type B, Grade 33 steel or structural concrete	V-Force Vapor Barrier Membrane adhered to Min. 0.25-inch DensDeck Prime loose laid on steel deck	Optional insulation	Preliminary secured or secured with Top layer	Min. 2.0-inch ISO 95+ GL	Insulation Fastening Plates and Firestone All-Purpose fasteners secured 8 per 4 x 8 board	Max or Max FR	Attached in lap 12-inch o.c. with HD Fasteners & V-Plates, row spacing 114 inch o.c.	-52.5	A	1/2

**TABLE 2G: Steel or Concrete Decks – New Construction or Reroof (Tear-off) or Recover  
SYSTEM TYPE E-2: Bonded Base Insulation, Bonded Temp Roof, Bonded Top Insulation, Bonded Roof Cover**

System No.	Deck (See Note 1)	Base Insulation Layer			Temp Roof	Insulation		Roof Cover	Adhesive	MDP (psf)	Fire Rating UL790/E108	
		Type	Insulation Adhesive	Attachment Rate		Type	Attachment				Class	Max Incline (in.)
SC-76	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 0.5-inch DensDeck	I.S.O Stick	¾-1 in. wide ribbons spaced 12 in. o.c. along top flange of the deck ribs	BASEGARD SA –self adhered	One or more layers min. 0.5 -inch ISO 95+ GL, optional Tapered ISO 95+ GL	Asphalt	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/4
SC-77	Min. 22 ga., type B, Grade 33 steel or structural concrete	NA	NA	NA	V-Force	One or more layers min. 1.5 -inch ISO 95+ GL, optional Tapered ISO 95+ GL	I.S.O Stick or I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/4
SC-78	Min. 22 ga., type B, Grade 33 steel or structural concrete	NA	NA	NA	V-Force	Min. 2.0" ISO 95+ GL	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-60.0	A	1/4
SC-79	Min. 22 ga., type B, Grade 33 steel or structural concrete	NA	NA	NA	NA	Min. 1.5" ISO 95+ GL	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-45.0	A	1/4

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 3A: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)  
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Attachment	Type	Attachment	Type	Adhesive		Class	Max Incline (in.)
C-1	Min. 2,500 psi concrete	ASTM D41	(Optional) Min. 1.5-inch ISO 95+ GL	Hot asphalt	Min. 0.25-inch DensDeck Prime	Hot asphalt	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-112.5	A	1-1/2
C-2	Min. 2,500 psi concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL with optional Tapered ISO 95+ GL	Hot asphalt	Min. 0.25-inch DensDeck	Hot asphalt	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-165.0	A	1-1/2
C-3	Min. 2,500 psi concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL	Hot asphalt	(Optional) Tapered ISO 95+ GL	Hot asphalt	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-195.0	A	1/4
C-4	Min. 2,500 psi concrete	ASTM D41	Min. 1.5-inch ISO 95+ GL	Hot asphalt	Min. 0.25-inch SECUROCK Gypsum- Fiber Roof Board	Hot asphalt	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-247.5	A	1-1/2
C-5	Min. 2,500 psi concrete	ASTM D41	Min. 0.25-inch DensDeck	Hot asphalt	None	N/A	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-420.0	A	1-1/2
C-6	Min. 2,500 psi concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II	Min. 0.25-inch DensDeck Prime	I.S.O. FIX II	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-262.5	A	1-1/2
C-7	Min. 2,500 psi concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. FIX II	Min. 0.5-inch ISOGARD HD	I.S.O. FIX II	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), EPDM SFBA	-277.5	A	1/2
C-8	Min. 2,500 psi concrete	None	Min. 1.0-inch RESISTA	I.S.O. FIX II	(Optional) additional layers base insulation	I.S.O. FIX II	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-360.0	A	1/2
C-9	Min. 2,500 psi concrete	None	Min. 1.0-inch RESISTA	I.S.O. FIX II	(Optional) additional layers base insulation	I.S.O. FIX II	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	WBBA-P	-405.0	A	1/2
C-10	Min. 2,500 psi concrete	None	Min. 1.0-inch RESISTA	I.S.O. FIX II	(Optional) additional layers base insulation	I.S.O. FIX II	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-450.0	A	1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 3A: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)**  
**SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER (continued)**

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover		MDP (psf)	Fire Rating UL790/ASTM E108	
			Type	Attachment	Type	Attachment	Type	Adhesive		Class	Max Incline (in.)
C-11	Min. 2,500 psi concrete	None	(Optional) Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-225.0	A	1/2
C-12	Min. 2,500 psi concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), EPDM SFBA, WBBA-P	-247.5	A	1/2
C-13	Min. 2,500 psi concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.25-inch DensDeck Prime	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-262.5	A	1-1/2
C-14	Min. 2,500 psi concrete	None	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	None	N/A	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA, WBBA-P	-300.0	A	1/2
C-15	Min. 2,500 psi concrete	None	Min. 1.0-inch RESISTA	I.S.O. Twin Pack	(Optional) additional layers base insulation	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-360.0	A	1/2
C-16	Min. 2,500 psi concrete	None	Min. 1.0-inch RESISTA	I.S.O. Twin Pack	(Optional) additional layers base insulation	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	WBBA-P	-405.0	A	1/2
C-17	Min. 2,500 psi concrete	None	Min. 0.25-inch DensDeck	I.S.O. Twin Pack, full coverage	None	N/A	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-420.0	A	1-1/2
C-18	Min. 2,500 psi concrete	None	Min. 1.0-inch RESISTA	I.S.O. Twin Pack	(Optional) additional layers base insulation	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-450.0	A	1/2
C-19	Min. 2,500 psi concrete	None	Min. 0.5-inch thick, ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Min. 2.0-inch ISOGARD HD Composite	I.S.O. Twin Pack	MAX, MAX PT	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-217.5	A	1/4

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 3A: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)  
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER (continued)**

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover		MDP (psf)	Fire Rating UL790/ASTM E108	
			Type	Attachment	Type	Attachment	Type	Adhesive		Class	Max Incline (in.)
C-20	Min. 2,500 psi concrete	None	Min. 0.5-inch thick, ISO 95+ GL or RESISTA	I.S.O. Twin Pack	Min. 2.0-inch ISOGARD HD Composite	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-217.5	A	1/2
C-21	Min. 2,500 psi concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	(Optional) additional layers base insulation and/or ISOGARD HD	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-225.0	A	1/4
C-22	Min. 2,500 psi concrete	None	Min. 0.5-inch ISOGARD HD	I.S.O. Stick	None	N/A	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-225.0	A	1/2
C-23	Min. 2,500 psi concrete	None	Min. 0.5-inch thick, ISO 95+ GL or RESISTA	I.S.O. Stick	Min. 2.0-inch ISOGARD HD Composite	I.S.O. Stick	MAX, MAX PT	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-187.5	A	1/4
C-24	Min. 2,500 psi concrete	None	Min. 0.5-inch thick, ISO 95+ GL or RESISTA	I.S.O. Stick	Min. 2.0-inch ISOGARD HD Composite	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, EPDM SA, Platinum, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-187.5	A	1/2
C-25	Min. 2,500 psi concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.25-inch DensDeck or DensDeck Prime	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-232.5	A	1-1/2
C-26	Min. 2,500 psi concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 7/16-inch OSB	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BAL, LVOC BA1168, EPDM SFBA	-247.5	A	1/2
C-27	Min. 2,500 psi concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-247.5	A	1-1/2
C-28	Min. 2,500 psi concrete	None	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.25-inch DensDeck Prime	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-262.5	A	1-1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 3A: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)  
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER (continued)**

System No.	Deck (See Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Attachment	Type	Attachment	Type	Adhesive		Class	Max Incline (in.)
C-29	Min. 2,500 psi concrete	None	Min. 1.5- inch ISO 95+ GL	I.S.O. Stick	(Optional) additional layers base insulation	I.S.O. Stick	Fire Retardant, LS- FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-270.0	A	1/4
C-30	Min. 2,500 psi concrete	None	Min. 1.5- inch ISO 95+ GL	I.S.O. Stick	ISOGARD HD	I.S.O. Stick	Fire Retardant, LS- FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-322.5	A	1/2
C-31	Min. 2,500 psi concrete	None	Min. 0.5- inch ISOGARD HD	I.S.O. Stick, 4- inch o.c.	None	N/A	Fire Retardant, LS- FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA, WBBA-P	-360.0	A	1/2
C-32	Min. 2,500 psi concrete	None	Min. 0.5- inch ISOGARD HD	I.S.O. Stick	None	N/A	EcoWhite	BA-2004(T), LVOC BA	-405.0	A	1/2
C-33	Min. 2,500 psi concrete	None	Min. 1.0- inch RESISTA	I.S.O. Stick	(Optional) additional layers base insulation	I.S.O. Stick	Fire Retardant, LS- FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR or EcoWhite	WBBA-P	-405.0	A	1/2
C-34	Min. 2,500 psi concrete	None	Min. 1.5- inch ISO 95+ GL	I.S.O. Spray S	Min. 0.25-inch DensDeck Prime	I.S.O. Spray S	Fire Retardant, LS- FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR or EcoWhite	LVOC BA1168	-262.5	A	1-1/2
C-35	Min. 2,500 psi concrete	None	Min. 1.0- inch RESISTA	I.S.O. Spray S	(Optional) additional layers base insulation	I.S.O. Spray S	Fire Retardant, LS- FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR or EcoWhite	LVOC BA1168	-450.0	A	1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).



**TABLE 3B: CONCRETE DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)  
SYSTEM TYPE A-1B: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Primer	Vapor Barrier/ Temporary Roof	Base Insulation Layer		Top Insulation Layer		Roof Cover		MDP (psf)	Fire Rating UL790/E108	
				Type	Attachment	Type	Attachment	Type	Adhesive		Class	Max Incline (in.)
C-36	Min. 2,500 psi concrete	ASTM D41	Two plies Firestone Type IV or VI Ply Felt, adhered in hot asphalt	(Optional) Min. 1.5-inch ISO 95+ GL	Hot asphalt	Min. 0.25-inch DensDeck Prime	Hot asphalt	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-112.5	A	1-1/2
C-37	Min. 2,500 psi concrete	ASTM D41	Firestone MB Base M, adhered in I.S.O. Twin Pack 12" o.c.	Min. 1.5 inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.25-inch DensDeck or DensDeck Prime	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA	-232.5	A	1-1/2
C-38	Min. 2,500 psi concrete	ASTM D41	Firestone SBS Poly Torch or SBS Glass Torch Base, torch applied	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.25-inch DensDeck or DensDeck Prime	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, EcoWhite	BA-2004(T), LVOC BA, LVOCBA1168, EPDM SFBA	-232.5	A	1-1/2
C-39	Min. 2,500 psi concrete	V-Force WB Primer	V-Force, self-adhered	Min. 0.5-inch ISO 95+ GL	ADCO Millennium PG-1 Fleeceback	Min. 0.25-inch DensDeck Prime	ADCO Millennium PG-1 Fleeceback	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA, LVOC BA1168	-187.5	A	1-1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**Table 4A: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION or REROOF (Tear-Off)  
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover		MDP (psf)	Fire Rating UL790/E108	
		Type	Fasteners	Attachment Rate	Type	Attach.	Type	Attach.	Type	Adhesive		Class	Max Incline (in.)
CWF-1	Tectum	SBS Base, SBS Premium Base, MB Base, APP 160	Two Piece Impact Nail (min. 1.8-inch)	9-inch o.c. in the min. 2-inch lap and 18-inch o.c. in two, equally spaced center rows	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.25-inch DensDeck or DensDeck Prime	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA, WBBA-P	-45.0	A	1-1/2
CWF-2	Tectum	SBS Base, SBS Premium Base, MB Base, APP 160	Two Piece Impact Nail (min. 1.8-inch)	9-inch o.c. in the min. 2-inch lap and 18-inch o.c. in two, equally spaced center rows	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.25-inch DensDeck Prime	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-45.0	A	1-1/2

**TABLE 4B: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION, REROOF (Tear-Off) or RECOVER  
SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover		MDP (psf)	Fire Rating UL790/E108	
			Type	Fasteners	Attachment Rate	Type	Adhesive		Class	Max Incline (in.)
CWF-3	Tectum	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISO 95+ GL	Firestone Polymer Fastener with Polymer Insulation Plates	1 per 2.0 ft <sup>2</sup>	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-45.0	A	1/4

**TABLE 5A: GYPSUM DECKS - REROOF (Tear-Off)  
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (See Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover		MDP (psf)	Fire Rating UL790/E108	
		Type	Attachment	Type	Attachment	Type	Adhesive		Class	Max Incline (in.)
G-1	Existing sound gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-157.5	A	1/4
G-2	Existing sound gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	(Optional) Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch OSB	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-112.5	A	1/4
G-3	Existing sound gypsum or gypsum plank	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	(Optional) Min. 0.25-inch DensDeck Prime or min. 7/16-inch OSB	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-112.5	A	1/4

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 6A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover		MDP (psf)	Fire Rating UL790/E108	
		Type	Attachment	Type	Attachment	Type	Adhesive		Class	Max Incline (in.)
R-1	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	(Optional) Min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-157.5	A	1/4
R-2	Existing asphaltic BUR or mineral surface cap sheet	(Optional) Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.25-inch DensDeck or DensDeck Prime	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-157.5	A	1-1/2
R-3	Existing asphaltic BUR or mineral surface cap sheet	(Optional) Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.25-inch DensDeck Prime	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-157.5	A	1-1/2
R-4	Existing asphaltic BUR or mineral surface cap sheet	(Optional) Min. 1.5-inch ISO 95+ GL	I.S.O. Twin Pack	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, LVOC BA1168, EPDM SFBA, WBBA-P	-157.5	A	1/2
R-5	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min.0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum or min. 7/16-inch OSB	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, EPDM SA <sup>1</sup> , Platinum, MAX, MAX PT, MAX FR, EcoWhite	BA-2004(T), LVOC BA, EPDM SFBA	-120.0	A	1/2
R-6	Existing asphaltic BUR or mineral surface cap sheet	Min. 1.5-inch ISO 95+ GL	I.S.O. Stick	Min. 0.25-inch DensDeck Prime or min 7/16-inch OSB	I.S.O. Stick	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR, EcoWhite	LVOC BA1168	-120.0	A	1-1/2

<sup>1</sup> RUBBERGARD EPDM SA is a self-adhering membrane approved as an alternate to LS-FR EPDM fully adhered with BA-2004(T).

**TABLE 6B: STEEL - RECOVER**  
**SYSTEM TYPE D-1B: INSULATED, MECHANICALLY ATTACHED ROOF COVER (BATTENS)**

System No.	Deck	Insulation		Roof Cover			MDP (psf)	Fire Rating UL790/E108	
		Type	Attachment	Membrane	Fasteners	Attachment Rate		Class	Max Incline (in.)
R-7	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 72-inch o.c.	One or more layers, ISO 95+ GL any combination	Preliminarily attached	MAX, MAX PT, MAX FR	Firestone Purlin Fastener with Firestone Polymer Batten Strip	6-inch o.c. within 6-inch wide laps spaced max. 72-inch o.c. to engage steel purlin. (All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)	-30.0	A	1/4
R-8	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 114-inch o.c.	One or more layers, ISO 95+ GL any combination	Preliminarily attached	LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR	Firestone Purlin Fastener with Firestone Polymer Batten Strip	12-inch o.c. within 6-inch wide laps spaced max. 114-inch o.c. to engage steel purlin. (All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)	-30.0	A	1/4
R-9	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 72-inch o.c.	One or more layers, ISO 95+ GL any combination	Preliminarily attached	LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR	Firestone Purlin Fastener with Firestone Coiled Metal Batten Strip	6-inch o.c. within 6-inch wide laps spaced max. 72-inch o.c. to engage steel purlin. (All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)	-45.0	A	1/4
R-10	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 84-inch o.c.	One or more layers, ISO 95+ GL any combination	Preliminarily attached	LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR	Firestone Purlin Fastener with Firestone Coiled Metal Batten Strip	12-inch o.c. within 6-inch wide laps spaced max. 84-inch o.c. to engage steel purlin. (All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)	-45.0	A	1/4

**TABLE 6C: STEEL - RECOVER**  
**SYSTEM TYPE D-1C: INSULATED, MECHANICALLY ATTACHED ROOF COVER (RMA Strips)**

System No.	Deck	Insulation		Roof Cover			MDP (psf)	Fire Rating UL790/E108	
		Type	Attachment	Membrane	Fasteners	Attachment		Class	Max Incline (in.)
R-11	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 60-inch o.c.	One or more layers, ISO 95+ GL any combination	Preliminarily attached	Min. 60-mil MAX, MAX PT, MAX FR	Firestone Purlin Fastener and Firestone HD Seam Plates	QuickSeam R.M.A. Strips are applied over the insulation spaced 60-inch o.c. positioned over each steel purlin location and secured 6-inch o.c. into the purlins. Roof cover adhered to each strip by first priming the membrane underside with QuickPrime Plus at the strip location, then rolling into place with a hand roller.	-30.0	A	1/4
R-12	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 84-inch o.c.	One or more layers, ISO 95+ GL any combination	Preliminarily attached	Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR	Firestone Purlin Fastener with Firestone Coiled Metal Batten Strip	QuickSeam R.M.A. Strips are applied over the insulation spaced 84-inch o.c. positioned over each steel purlin location and secured 6-inch o.c. into the purlins. Roof cover adhered to each strip by first priming the membrane underside with QuickPrime Plus at the strip location, then rolling into place with a hand roller.	-30.0	A	1/4
R-13	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 72-inch o.c.	One or more layers, ISO 95+ GL any combination	Preliminarily attached	Min. 60-mil Fire Retardant, LS-FR, LS-FR PT, Platinum, MAX, MAX PT, MAX FR	Firestone Purlin Fastener with Firestone Coiled Metal Batten Strip	QuickSeam R.M.A. Strips are applied over the insulation spaced 72-inch o.c. positioned over each steel purlin location and secured 12-inch o.c. into the purlins. Roof cover adhered to each strip by first priming the membrane underside with QuickPrime Plus at the strip location, then rolling into place with a hand roller.	-37.5	A	1/4
R-14	Existing standing seam or lap seam metal roof covers having min. 3/16-inch to max. ¼-inch thick steel purlins spaced max. 120-inch o.c.	One or more layers, ISO 95+ GL any combination	Preliminarily attached	MAX, MAX PT, MAX FR	Firestone Purlin Fastener with Firestone Polymer Batten Strip	QuickSeam R.M.A. Strips are applied over the insulation spaced 120-inch o.c. positioned over each steel purlin location and secured 6-inch o.c. into the purlins. Roof cover adhered to each strip by first priming the membrane underside with QuickPrime Plus at the strip location, then rolling into place with a hand roller.	-52.5	A	1/4

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